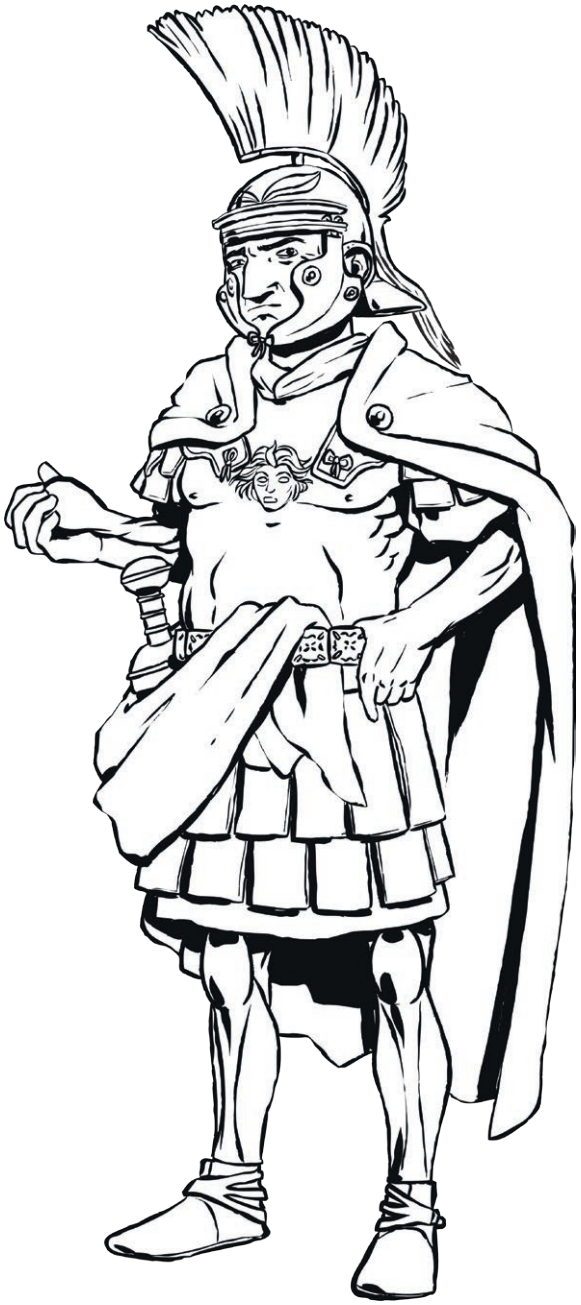
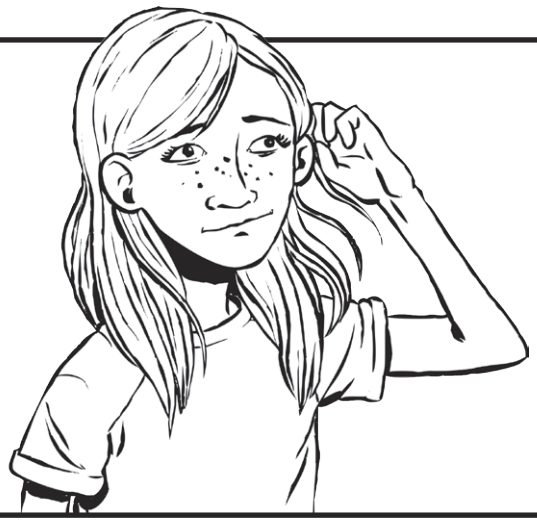
Awesome Armour

Design & Technology Project



twinkl
ORIGINALS

Awesome Armour



Hi! I'm Tilda Hacker, would you like to travel back in time with me?

I am heading back to the Roman era and we need to defend ourselves from the angry Roman soldiers.

Here is the armour that the Roman legionaries wore.



Cassis

The helmet of a Roman soldier was called a cassis.

It was made of metal.

It was designed to protect the head from sword blows.

Body Armour

The body armour was made from overlapping iron strips.

The iron strips were fastened with hooks and laces at the front and hinged at the back.

The strips were held together with leather strips on the inside so that the armour would be flexible and the soldier could bend.

The armour was strengthened by front and back iron plates below the neck.

By the end of this project you will have designed, made and evaluated your own Roman armour.

Design Criteria

I can use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose and aimed at particular individuals or groups.

Consider each of the questions below.
Write down what your armour must be like and what it should be like.

Things to Consider	Essential Criteria	Desirable Criteria
Who will be wearing the product? How does it need to suit them?	*The armour must be big enough for me to wear.* ☐	*The armour should not be too big for me to wear.* ☐
What parts does it need to have?	☐	☐
What does it need to be able to do?	☐	☐
How does it need to look?	☐	☐
How will the product be easy to use?	☐	☐
How will you make sure that it is safe to use?	☐	☐
How will the product impact the environment?	☐	☐

Design

I can generate, develop, model and communicate my ideas through discussion and annotated sketches.

Sketch your initial design ideas and label your sketch with the materials you plan to use. Think about how you will make them look like iron and leather and how you intend to join the materials together.

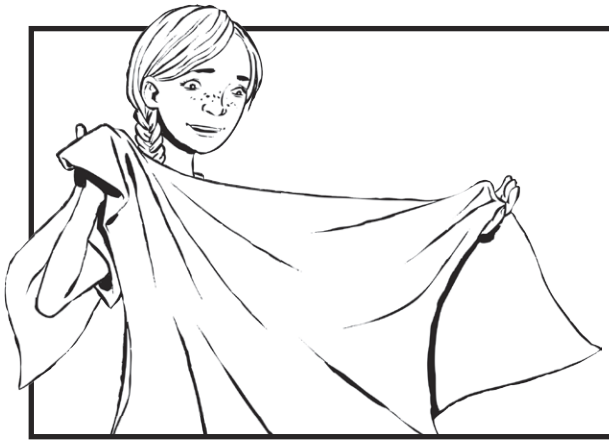
Body Armour

Cassis

Make

I can select from and use a wide range of materials and components according to their functional properties and aesthetic qualities.

I can select from and use a wide range of tools and equipment to perform practical tasks accurately.



I'm impressed by your designs!

Which materials and tools will you use to construct each section of your armour?

Explain why you have made these choices.

Body Armour

Materials:

Equipment:

Cassis

Materials:

Equipment:

Make



Now that you have made your armour, write a set of instructions which tell someone else how to make it.

Make sure that you:

- name the materials and tools you used;
- write your instructions in time order;
- don't miss anything out;
- give helpful tips.

Body Armour

Cassis

Useful Words

First...	Next...	Then...	When...	After...	Finally...

Evaluate

I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work.

Wow - your armour looks incredible!

Go back to page 2, and use your criteria as a checklist.

Tick the boxes that you think you have achieved, then answer these questions:



How many of the essential criteria did you achieve? _____ / 14

How many of the desirable criteria did you achieve? _____ / 14

Which of the criteria was the easiest to achieve?

_____

Which of the criteria was the hardest to achieve?

_____

Why? _____

What is your favourite thing about your armour?

_____

What would you do differently, if you could try again?

_____

_____



Now ask a friend to give you feedback on your work.

Friendly Feedback

My name is _____

I really like _____

I am impressed with _____

One thing I would suggest improving is

_____

Well done!